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☐ L55 l53 and (delay\$3 or hold\$3 or wait\$3 or stall\$3) 25
DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ
☐ L54 predicate\$1 and reservation station\$1 3
DB=PGPB,USPT; PLUR=NO; OP=ADJ
☐ L53 predicate\$1 and reservation station\$1 25

☐ L52 L51 not l44 31

☐ L51 l49 and reorder\$3 39

☐ L50 L49 and renam\$3 20

☐ L49 l6 and L48 137

☐ L48 (delay\$3 or hold\$3 or wait\$3 or stall\$3) with (dispatch\$3 or issu\$3) 22380

☐ L47 l40 0

☐ L46 L45 not l42 5

☐ L45 L44 not l43 7

☐ L44 l6 and (reorder buffer) 13

☐ L43 l6 and (reorder buffer) and reservation station\$1 6

☐ L42 l6 and (reorder buffer) and scoreboard\$3 4

☐ L41 non-predicated instructions 4
DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ
☐ L40 (delay\$3 or hold\$3 or wait\$3 or stall\$3) and guard\$1 and (dispatch\$3 or issu\$3) 26

☐ L39 (delay\$3 or hold\$3 or wait\$3 or stall\$3) and gaurd\$1 and (dispatch\$3 or issu\$3) 0

☐ L38 (delay\$3 or hold\$3 or wait\$3) and predicate\$1 and (dispatch\$3 or issu\$3) 9

☐ L37 unknown with predicate\$1 5
DB=PGPB,USPT; PLUR=NO; OP=ADJ
☐ L36 L34 same (dispatch\$3 or issu\$3) 1

☐ L35 L34 with (dispatch\$3 or issu\$3) 0

☐ L34 unknown with predicate\$1 74

☐ L33 (delay\$3 or hold\$3 or wait\$3) with predicate\$1 with (dispatch\$3 or issu\$3) 19

☐ L32 predicat\$3 with stall\$3 with (issu\$3 or dispatach\$3) 1

☐ L31 predicat\$3 with block\$3 with (issu\$3 or dispatach\$3) 4

☐ L30 predicate writ\$3 13

☐ L29 predicate\$1 with stall\$3 with instruction\$1 20

DB=USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ

| | | | |
|--------------------------|-----|---|---|
| <input type="checkbox"/> | L28 | predicate\$1 with stall\$3 | 9 |
| <input type="checkbox"/> | L27 | predicate\$1 and (reservation station\$1) | 3 |
| <input type="checkbox"/> | L26 | predicate\$1 and (reservation station\$1) and scoreboard\$1 | 0 |

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| | | | |
|--------------------------|-----|--|----|
| <input type="checkbox"/> | L25 | 5892936.pn. and predicate\$1 | 1 |
| <input type="checkbox"/> | L24 | 6513109.pn. and reorder and reservation | 1 |
| <input type="checkbox"/> | L23 | 6513109.pn. and reorder | 1 |
| <input type="checkbox"/> | L22 | L20 or L21 | 20 |
| <input type="checkbox"/> | L21 | L16 and re-order buffer\$1 | 5 |
| <input type="checkbox"/> | L20 | L16 and reorder buffer\$1 | 19 |
| <input type="checkbox"/> | L19 | L16 and scoreboard\$1 | 5 |
| <input type="checkbox"/> | L18 | L17 and scoreboard\$1 | 1 |
| <input type="checkbox"/> | L17 | predicate\$1 same reservation station\$1 | 4 |
| <input type="checkbox"/> | L16 | predicate\$1 and reservation station\$1 | 25 |
| <input type="checkbox"/> | L15 | predicate and (reservation station) | 10 |
| <input type="checkbox"/> | L14 | predicate slip | 1 |
| <input type="checkbox"/> | L13 | predicate\$1 same (reservation station\$1) and scoreboard\$1 | 1 |

DB=USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ

| | | | |
|--------------------------|-----|---|---|
| <input type="checkbox"/> | L12 | stall\$3 with predicated instruction\$1 | 1 |
|--------------------------|-----|---|---|

DB=PGPB,USPT; PLUR=NO; OP=ADJ

| | | | |
|--------------------------|-----|---|------|
| <input type="checkbox"/> | L11 | stall\$3 with predicated instruction\$1 | 1 |
| <input type="checkbox"/> | L10 | 6115808.uref. | 6 |
| <input type="checkbox"/> | L9 | stall\$3 with predicat\$3 with instruction\$1 | 20 |
| <input type="checkbox"/> | L8 | dispatch\$3 with predicated instruction\$1 | 3 |
| <input type="checkbox"/> | L7 | stall\$3 with predicated instruction\$1 | 1 |
| <input type="checkbox"/> | L6 | (predicate or predicates) | 3714 |
| <input type="checkbox"/> | L5 | L4 not l3 | 2 |
| <input type="checkbox"/> | L4 | non-predicated instruction\$1 | 6 |
| <input type="checkbox"/> | L3 | non-predicated instructions | 4 |
| <input type="checkbox"/> | L2 | instructions adj "without" adj predicates | 0 |
| <input type="checkbox"/> | L1 | "instructions without predicates" | 0 |

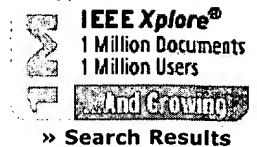
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1 Continuous delay regulator for controlling recording errors

Cooper, D.;

Audio and Electroacoustics, IEEE Transactions on , Volume: 14 , Issue: 1 , Mar 1966

Pages:16 - 26

[\[Abstract\]](#) [\[PDF Full-Text \(1192 KB\)\]](#) **IEEE JNL**

2 Correlator compensation requirements for passive time-delay estimation with moving source or receivers

Adams, W.; Kuhn, J.; Whyland, W.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 28 , Issue: 2 , Apr 1980

Pages:158 - 168

[\[Abstract\]](#) [\[PDF Full-Text \(1008 KB\)\]](#) **IEEE JNL**

3 Simplified design of high-order recursive group-delay filters

Bernhardt, P.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 28 , Issue: 5 , Oct 1980

Pages:498 - 503

[\[Abstract\]](#) [\[PDF Full-Text \(456 KB\)\]](#) **IEEE JNL**

4 An overview on the time delay estimate in active and passive systems for target localization

Quazi, A.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 29 , Issue: 3 , Jun 1981
Pages:527 - 533

[\[Abstract\]](#) [\[PDF Full-Text \(752 KB\)\]](#) IEEE JNL

5 A Bayesian approach to time delay estimation

Kenefic, R.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 29 , Issue: 3 , Jun 1981
Pages:611 - 614

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) IEEE JNL

6 Adaptive estimation of time delays in sampled data systems

Etter, D.; Stearns, S.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 29 , Issue: 3 , Jun 1981
Pages:582 - 587

[\[Abstract\]](#) [\[PDF Full-Text \(560 KB\)\]](#) IEEE JNL

7 Time delay estimation for passive sonar signal processing

Carter, G.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 29 , Issue: 3 , Jun 1981
Pages:463 - 470

[\[Abstract\]](#) [\[PDF Full-Text \(1008 KB\)\]](#) IEEE JNL

8 Back cover

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 29 , Issue: 6 , Dec 1981
Pages:0 - 0

[\[Abstract\]](#) [\[PDF Full-Text \(2664 KB\)\]](#) IEEE JNL

9 Design of recursive group-delay filters by autoregressive modeling

Yegnanarayana, B.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 30 , Issue: 4 , Aug 1982
Pages:632 - 637

[\[Abstract\]](#) [\[PDF Full-Text \(552 KB\)\]](#) IEEE JNL

**10 Fundamental limitations in passive time delay estimation--Part I:
Narrow-band systems**

Weiss, A.; Weinstein, E.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 31 , Issue: 2 , Apr 1983
Pages:472 - 486

[\[Abstract\]](#) [\[PDF Full-Text \(1336 KB\)\]](#) [IEEE JNL](#)

11 Delay and Doppler estimation by time-space partition of the array data

Weinstein, E.; Kletter, D.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 31 , Issue: 6 , Dec 1983

Pages:1523 - 1535

[\[Abstract\]](#) [\[PDF Full-Text \(1112 KB\)\]](#) [IEEE JNL](#)

12 Subsampling to estimate delay with application to echo cancelling

Duttweiler, D.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 31 , Issue: 5 , Oct 1983

Pages:1090 - 1099

[\[Abstract\]](#) [\[PDF Full-Text \(832 KB\)\]](#) [IEEE JNL](#)

13 Delay estimation by expected value

Bradley, J.; Kirlin, R.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 32 , Issue: 1 , Feb 1984

Pages:19 - 27

[\[Abstract\]](#) [\[PDF Full-Text \(824 KB\)\]](#) [IEEE JNL](#)

14 The structure and performance of estimators for real-time estimation of randomly varying time delay

Meyr, H.; Spies, G.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 32 , Issue: 1 , Feb 1984

Pages:81 - 94

[\[Abstract\]](#) [\[PDF Full-Text \(1400 KB\)\]](#) [IEEE JNL](#)

15 Digital filters with equiripple magnitude and group delay

Saramaki, T.; Neuvo, Y.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 32 , Issue: 6 , Dec 1984

Pages:1194 - 1200

[\[Abstract\]](#) [\[PDF Full-Text \(744 KB\)\]](#) [IEEE JNL](#)

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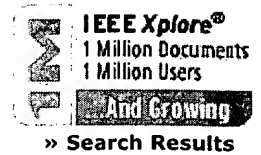
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1 [Bounded ignorance: a technique for increasing concurrency in a replicated system](#)

Narayanan Krishnakumar, Arthur J. Bernstein

December 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 4Full text available: [pdf\(2.84 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Databases are replicated to improve performance and availability. The notion of correctness that has commonly been adopted for concurrent access by transactions to shared, possibly replicated, data is serializability. However, serializability may be impractical in high-performance applications since it imposes too stringent a restriction on concurrency. When serializability is relaxed, the integrity constraints describing the data may be violated. By allowing bounded violations of the integ ...

Keywords: concurrency control, integrity constraints, reachability analysis, replication, serializability

2 [Formal aspects of concurrency control in long-duration transaction systems using the NT/PV model](#)

Henry F. Korth, Greg Speegle

September 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 3Full text available: [pdf\(3.23 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the typical database system, an execution is correct if it is equivalent to some serial execution. This criterion, called serializability, is unacceptable for new database applications which require long-duration transactions. We present a new transaction model which allows correctness criteria more suitable for these applications. This model combines three enhancements to the standard model: nested transactions, explicit predicates, and multiple versions. These features yield the name o ...

Keywords: concurrency control protocol, semantic information, transaction processing

3 [Performance comparison of ILP machines with cycle time evaluation](#)

Tetsuya Hara, Hideki Ando, Chikako Nakanishi, Masao Nakaya


May 1996 **ACM SIGARCH Computer Architecture News**, Proceedings of the 23rd

annual international symposium on Computer architecture, Volume 24 Issue 2Full text available:  pdf(1.48 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many studies have investigated performance improvement through exploiting instruction-level parallelism (ILP) with a particular architecture. Unfortunately, these studies indicate performance improvement using the number of cycles that are required to execute a program, but do not quantitatively estimate the penalty imposed on the cycle time from the architecture. Since the performance of a microprocessor must be measured by its execution time, a cycle time evaluation is required as well as a cy ...

4 A method for the development of legal knowledge systems

Pepijn R. S. Visser, Robert W. van Kralingen, Trevor J. M. Bench-Capon

June 1997 **Proceedings of the sixth international conference on Artificial intelligence and law**Full text available:  pdf(1.20 MB)Additional Information: [full citation](#), [references](#), [index terms](#)5 Reasoning about probabilistic algorithms

Josyula R. Rao

August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing**Full text available:  pdf(1.63 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)6 Guarded commands, non-determinacy and a calculus for the derivation of programs

Edsger W. Dijkstra

April 1975 **ACM SIGPLAN Notices , Proceedings of the international conference on Reliable software**, Volume 10 Issue 6Full text available:  pdf(460.92 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

So-called "guarded commands" are introduced as a building block for alternative and repetitive constructs that allow non-deterministic program components for which at least the activity evoked, but possibly even the final state, is not necessarily uniquely determined by the initial state. For the formal derivation of programs expressed in terms of these constructs, a calculus will be shown.

Keywords: Case-construction, Correctness proof, Derivation of programs, Non-determinacy, Program semantics, Programming language semantics, Programming languages, Programming methodology, Repetition, Sequencing primitives, Termination

7 Guarded commands, nondeterminacy and formal derivation of programs

Edsger W. Dijkstra

August 1975 **Communications of the ACM**, Volume 18 Issue 8Full text available:  pdf(480.91 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

So-called "guarded commands" are introduced as a building block for alternative and repetitive constructs that allow nondeterministic program components for which at least the activity evoked, but possibly even the final state, is not necessarily uniquely determined by the initial state. For the formal derivation of programs expressed in terms of these constructs, a calculus will be shown.

Keywords: case-construction, correctness proof, derivation of programs, nondeterminacy, program semantics, programming language semantics, programming languages, programming methodology, repetition, sequencing primitives, termination

8 A semantics approach for KQML—a general purpose communication language for software agents

Yannis Labrou, Tim Finin

November 1994 **Proceedings of the third international conference on Information and knowledge management**

Full text available:  pdf(1.10 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate the semantics for Knowledge Query Manipulation Language (KQML) and we propose a semantic framework for the language. KQML is a language and a protocol to support communication between software agents. Based on ideas from speech act theory, we propose a semantic description for KQML that associates descriptions of the cognitive states of agents with the use of the language's primitives (performatives). We use this approach to describe the semantics for the basic set of KQML pe ...

9 Applying formal methods to semantic-based decomposition of transactions

Paul Ammann, Sushil Jajodia, Indrakshi Ray

June 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 2

Full text available:  pdf(569.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In some database applications the traditional approach of serializability, in which transactions appear to execute atomically and in isolation on a consistent database state, fails to satisfy performance requirements. Although many researchers have investigated the process of decomposing transactions into steps to increase concurrency, such research typically focuses on providing algorithms necessary to implement a decomposition supplied by the database application developer and pays relat ...

Keywords: concurrency control, database management systems, transaction processing

10 Correctness conditions for highly available replicated databases

Nancy Lynch, Barbara Blaustein, Michael Siegel

November 1986 **Proceedings of the fifth annual ACM symposium on Principles of distributed computing**

Full text available:  pdf(1.68 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Revised5 report on the algorithmic language scheme

N. I. Adams, D. H. Bartley, G. Brooks, R. K. Dybvig, D. P. Friedman, R. Halstead, C. Hanson, C. T. Haynes, E. Kohlbecker, D. Oxley, K. M. Pitman, G. J. Rozas, G. L. Steele, G. J. Sussman, M. Wand, H. Abelson

September 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 9

Full text available:  pdf(4.44 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

12 Reasoning about probabilistic parallel programs

Josyula R. Rao

May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 16 Issue 3

Full text available:  pdf(2.31 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of randomization in the design and analysis of algorithms promises simple and efficient algorithms to difficult problems, some of which may not have a deterministic solution. This gain in simplicity, efficiency, and solvability results in a trade-off of the traditional notion of absolute correctness of algorithms for a more quantitative notion: correctness with a probability between 0 and 1. The addition of the notion of parallelism to the already unintuitive idea of randomization m ...

Keywords: correctness proofs, parallel programming, probabilistic algorithms, programming methodology, specification techniques, verification

13 Selective value prediction

Brad Calder, Glenn Reinman, Dean M. Tullsen

May 1999 **ACM SIGARCH Computer Architecture News , Proceedings of the 26th annual international symposium on Computer architecture**, Volume 27 Issue 2

Full text available:  pdf(132.68 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#) [Publisher Site](#)

Value Prediction is a relatively new technique to increase instruction-level parallelism by breaking true data dependence chains. A value prediction architecture *produces* values, which may be later *consumed* by instructions that execute speculatively using the predicted value. This paper examines selective techniques for using value prediction in the presence of predictor capacity constraints and reasonable misprediction penalties. We examine prediction and confidence mechanisms in I ...

14 Mapping a functional specification to an object-oriented specification in software re-engineering

K. Periyasamy, C. Mathew


February 1996 **Proceedings of the 1996 ACM 24th annual conference on Computer science**

Full text available:  pdf(878.23 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 A bi-level language for software process modeling

Gail E. Kaiser, Steven S. Popovich, Israel Z. Ben-Shaul

May 1993 **Proceedings of the 15th international conference on Software Engineering**

Full text available:  pdf(1.33 MB)Additional Information: [full citation](#), [references](#), [citations](#)

16 Optimizing disjunctive queries with expensive predicates

A. Kemper, G. Moerkotte, K. Peithner, M. Steinbrunn

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available:  pdf(1.25 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this work, we propose and assess a technique called bypass processing for optimizing the evaluation of disjunctive queries with expensive predicates. The technique is particularly useful for optimizing selection predicates that contain terms whose evaluation costs vary tremendously; e.g., the evaluation of a nested subquery or the invocation of a user-defined function in an object-oriented or extended relational model may be orders of magnitude

more expensive than an att ...

17 Case role filling as a side effect of visual search

Heinz Marburger, Wolfgang Wahlster

September 1983 **Proceedings of the first conference on European chapter of the Association for Computational Linguistics**

Full text available:  pdf(683.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

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This paper addresses the problem of generating communicatively adequate extended responses in the absence of specific knowledge concerning the intensions of the questioner. We formulate and justify a heuristic for the selection of optional deep case slots not contained in the question as candidates for the additional information contained in an extended response. It is shown that, in a visually present domain of discourse, case role filling for the construction of an extended response can be reg ...

18 Enhanced modulo scheduling for loops with conditional branches

Nancy J. Warter, Grant E. Haab, Krishna Subramanian, John W. Bockhaus

December 1992 **ACM SIGMICRO Newsletter , Proceedings of the 25th annual international symposium on Microarchitecture**, Volume 23 Issue 1-2

Full text available:  pdf(1.21 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Objects with logic

Mamdouh H. Ibrahim, Fred A. Cummins

January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**

Full text available:  pdf(608.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an approach to the integration of logic and object programming where predicates, logic expressions, and a generalized search protocol that support Prolog-like reasoning are implemented as an integral part of an object-oriented language. This logic programming facility provides 1) domain-based reasoning, 2) functional arguments, 3) support of the abstraction power of object-oriented languages, and 4) matching of complex object patterns, none of which are available in Pro ...

20 Integrating obstacles in goal-driven requirements engineering

Axel van Lamsweerde, Emmanuel Letier

April 1998 **Proceedings of the 20th international conference on Software engineering**

Full text available:  pdf(1.30 MB) 

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